Fig. 2a

```
gctctccctg ctccagcaag gacc atg agg gcg ctg gag ggg cca ggc ctg      51
                           Met Arg Ala Leu Glu Gly Pro Gly Leu
                            1                   5

tcg ctg ctg tgc ctg gtg ttg gcg ctg cct gcc ctg ctg ccg gtg ccg      99
Ser Leu Leu Cys Leu Val Leu Ala Leu Pro Ala Leu Leu Pro Val Pro
 10              15              20                      25

gct gta cgc gga gtg gca gaa aca ccc acc tac ccc tgg cgg gac gca     147
Ala Val Arg Gly Val Ala Glu Thr Pro Thr Tyr Pro Trp Arg Asp Ala
                     30              35              40

gag aca ggg gag cgg ctg gtg tgc gcc cag tgc ccc cca ggc acc ttt     195
Glu Thr Gly Glu Arg Leu Val Cys Ala Gln Cys Pro Pro Gly Thr Phe
             45              50              55

gtg cag cgg ccg tgc cgc cga gac agc ccc acg acg tgt ggc ccg tgt     243
Val Gln Arg Pro Cys Arg Arg Asp Ser Pro Thr Thr Cys Gly Pro Cys
         60              65              70

cca ccg cgc cac tac acg cag ttc tgg aac tac ctg gag cgc tgc cgc     291
Pro Pro Arg His Tyr Thr Gln Phe Trp Asn Tyr Leu Glu Arg Cys Arg
     75              80              85

tac tgc aac gtc ctc tgc ggg gag cgt gag gag gag gca cgg gct tgc     339
Tyr Cys Asn Val Leu Cys Gly Glu Arg Glu Glu Glu Ala Arg Ala Cys
 90              95              100             105

cac gcc acc cac aac cgt gcc tgc cgc tgc cgc acc ggc ttc ttc gcg     387
His Ala Thr His Asn Arg Ala Cys Arg Cys Arg Thr Gly Phe Phe Ala
                 110             115             120

cac gct ggt ttc tgc ttg gag cac gca tcg tgt cca cct ggt gcc ggc     435
His Ala Gly Phe Cys Leu Glu His Ala Ser Cys Pro Pro Gly Ala Gly
             125             130             135

gtg att gcc ccg ggc acc ccc agc cag aac acg cag tgc cag ccg tgc     483
Val Ile Ala Pro Gly Thr Pro Ser Gln Asn Thr Gln Cys Gln Pro Cys
         140             145             150

ccc cca ggc acc ttc tca gcc agc agc tcc agc tca gag cag tgc cag     531
Pro Pro Gly Thr Phe Ser Ala Ser Ser Ser Ser Glu Gln Cys Gln
     155             160             165

ccc cac cgc aac tgc acg gcc ctg ggc ctg gcc ctc att gtg cca ggc     579
Pro His Arg Asn Cys Thr Ala Leu Gly Leu Ala Leu Ile Val Pro Gly
170             175             180             185

tct tcc tcc cat gac acc ctg tgc acc agc tgc act ggc ttc ccc ctc     627
Ser Ser Ser His Asp Thr Leu Cys Thr Ser Cys Thr Gly Phe Pro Leu
                 190             195             200

agc acc agg gta cca gga gct gag gag tgt gag cgt gcc gtc atc gac     675
Ser Thr Arg Val Pro Gly Ala Glu Glu Cys Glu Arg Ala Val Ile Asp
             205             210             215

ttt gtg gct ttc cag gac atc tcc atc aag agg ctg cag cgg ctg ctg     723
Phe Val Ala Phe Gln Asp Ile Ser Ile Lys Arg Leu Gln Arg Leu Leu
         220             225             230
```

Fig. 2b

```
cag gcc ctc gag gcc ccg gag ggc tgg gct ccg aca cca agg gcg ggc    771
Gln Ala Leu Glu Ala Pro Glu Gly Trp Ala Pro Thr Pro Arg Ala Gly
    235                 240                 245


cgc gcg gcc ttg cag ctg aag ctg cgt cgg cgg ctc acg gag ctc ctg    819
Arg Ala Ala Leu Gln Leu Lys Leu Arg Arg Arg Leu Thr Glu Leu Leu
250                 255                 260                 265


ggg gcg cag gac ggg gcg ctg ctg gtg cgg ctg ctg cag gcg ctg cgc    867
Gly Ala Gln Asp Gly Ala Leu Leu Val Arg Leu Leu Gln Ala Leu Arg
                270                 275                 280


gtg gcc agg atg ccc ggg ctg gag cgg agc gtc cgt gag cgc ttc ctc    915
Val Ala Arg Met Pro Gly Leu Glu Arg Ser Val Arg Glu Arg Phe Leu
                285                 290                 295


cct gtg cac tgatcctggc cc                                          936
Pro Val His
        300
```

Fig. 4a

```
gtg gca gaa aca ccc acc tac ccc tgg cgg gac gca gag aca ggg gag    48
Val Ala Glu Thr Pro Thr Tyr Pro Trp Arg Asp Ala Glu Thr Gly Glu
 1               5                  10                  15

cgg ctg gtg tgc gcc cag tgc ccc cca ggc acc ttt gtg cag cgg ccg    96
Arg Leu Val Cys Ala Gln Cys Pro Pro Gly Thr Phe Val Gln Arg Pro
            20                  25                  30

tgc cgc cga gac agc ccc acg acg tgt ggc ccg tgt cca ccg cgc cac   144
Cys Arg Arg Asp Ser Pro Thr Thr Cys Gly Pro Cys Pro Pro Arg His
            35                  40                  45

tac acg cag ttc tgg aac tac ctg gag cgc tgc cgc tac tgc aac gtc   192
Tyr Thr Gln Phe Trp Asn Tyr Leu Glu Arg Cys Arg Tyr Cys Asn Val
        50                  55                  60

ctc tgc ggg gag cgt gag gag gag gca cgg gct tgc cac gcc acc cac   240
Leu Cys Gly Glu Arg Glu Glu Glu Ala Arg Ala Cys His Ala Thr His
65                  70                  75                  80

aac cgt gcc tgc cgc tgc cgc acc ggc ttc ttc gcg cac gct ggt ttc   288
Asn Arg Ala Cys Arg Cys Arg Thr Gly Phe Phe Ala His Ala Gly Phe
                85                  90                  95

tgc ttg gag cac gca tcg tgt cca cct ggt gcc ggc gtg att gcc ccg   336
Cys Leu Glu His Ala Ser Cys Pro Pro Gly Ala Gly Val Ile Ala Pro
            100                 105                 110

ggc acc ccc agc cag aac acg cag tgc cag ccg tgc ccc cca ggc acc   384
Gly Thr Pro Ser Gln Asn Thr Gln Cys Gln Pro Cys Pro Pro Gly Thr
            115                 120                 125

ttc tca gcc agc agc tcc agc tca gag cag tgc cag ccc cac cgc aac   432
Phe Ser Ala Ser Ser Ser Ser Ser Glu Gln Cys Gln Pro His Arg Asn
            130                 135                 140

tgc acg gcc ctg ggc ctg gcc ctc aat gtg cca ggc tct tcc tcc cat   480
Cys Thr Ala Leu Gly Leu Ala Leu Asn Val Pro Gly Ser Ser Ser His
145                 150                 155                 160

gac acc ctg tgc acc agc tgc act ggc ttc ccc ctc agc acc agg gta   528
Asp Thr Leu Cys Thr Ser Cys Thr Gly Phe Pro Leu Ser Thr Arg Val
                165                 170                 175

cca gga gct gag gag tgt gag cgt gcc gtc atc gac ttt gtg gct ttc   576
Pro Gly Ala Glu Glu Cys Glu Arg Ala Val Ile Asp Phe Val Ala Phe
            180                 185                 190

cag gac atc tcc atc aag agg ctg cag cgg ctg ctg cag gcc ctc gag   624
Gln Asp Ile Ser Ile Lys Arg Leu Gln Arg Leu Leu Gln Ala Leu Glu
            195                 200                 205

gcc ccg gag ggc tgg gct ccg aca cca agg gcg ggc cgc gcg gcc ttg   672
Ala Pro Glu Gly Trp Ala Pro Thr Pro Arg Ala Gly Arg Ala Ala Leu
            210                 215                 220

cag ctg aag ctg cgt cgg cgg ctc acg gag ctc ctg ggg gcg cag gac   720
Gln Leu Lys Leu Arg Arg Arg Leu Thr Glu Leu Leu Gly Ala Gln Asp
225                 230                 235                 240
```

Fig. 4b

```
ggg gcg ctg ctg gtg cgg ctg ctg cag gcg ctg cgc gtg gcc agg atg   768
Gly Ala Leu Leu Val Arg Leu Leu Gln Ala Leu Arg Val Ala Arg Met
                245                 250                 255


ccc ggg ctg gag cgg agc gtc cgt gag cgc ttc ctc cct gtg cac       813
Pro Gly Leu Glu Arg Ser Val Arg Glu Arg Phe Leu Pro Val His
            260                 265                 270

tgatcctggc cc                                                      825
```